

32ET5A

Power Pentode

7-PIN MINIATURE TYPE

With Heater Having Controlled Warm-Up Time

GENERAL DATA

Electrical:

Heater Characteristics and Ratings (*Design-Maximum Values*):

| | | |
|---|-----------------------|-------|
| Current | 0.100 ± 0.006 | amp |
| Voltage (AC or DC) at heater amperes = 0.100 | 32 | volts |
| Warm-up time (Average) | 20 | sec |
| Peak heater-cathode voltage: | | |
| Heater negative with respect to cathode | 200 max. | volts |
| Heater positive with respect to cathode | 200 ^a max. | volts |

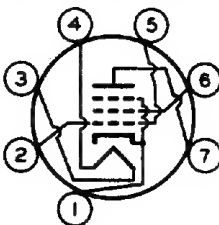
Direct Interelectrode Capacitances
(Approx.):^b

| | | |
|--|------|----|
| Grid No.1 to plate | 0.6 | pf |
| Grid No.1 to cathode & grid No.3, grid No.2, and heater | 12.0 | pf |
| Plate to cathode & grid No.3, grid No.2, and heater | 6.0 | pf |

Mechanical:

| | |
|---|--|
| Operating Position | Any |
| Type of Cathode | Coated Unipotential |
| Maximum Overall Length | 2-5/8" |
| Maximum Seated Length | 2-3/8" |
| Length, Base Seat to Bulb Top (Excluding tip) | 2" ± 3/32" |
| Diameter | 0.650" to 0.750" |
| Dimensional Outline | See <i>General Section</i> |
| Bulb | T5-1/2 |
| Base | Small-Button Miniature 7-Pin (JEDEC No.E7-1) |
| Basing Designation for BOTTOM VIEW | 7CV |

Pin 1—Cathode,
Grid No.3
Pin 2—Grid No.1
Pin 3—Heater



Pin 4—Heater
Pin 5—Grid No.1
Pin 6—Grid No.2
Pin 7—Plate

AMPLIFIER — Class A₁

Maximum Ratings, *Design-Maximum Values*:

| | | |
|---|----------|-------|
| PLATE VOLTAGE | 150 max. | volts |
| GRID-No.2 (SCREEN-GRID) VOLTAGE | 130 max. | volts |
| GRID-No.2 INPUT | 1.2 max. | watts |
| PLATE DISSIPATION | 5.4 max. | watts |



RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.

DATA
1-63

32ET5A

Typical Operation and Characteristics:

| | | |
|---|-------|-----------|
| Plate Voltage | 110 | volts |
| Grid-No.2 Voltage | 110 | volts |
| Grid-No.1 Voltage | -7.5 | volts |
| Peak AF Grid-No.1 Voltage | 7.5 | volts |
| Zero-Signal Plate Current | 30 | ma |
| Zero-Signal Grid-No.2 Current | 2.8 | ma |
| Plate Resistance (Approx.) | 21500 | ohms |
| Transconductance | 5500 | μ hos |
| Load Resistance | 2800 | ohms |
| Total Harmonic Distortion | 10 | % |
| Max.-Signal Power Output | 1.2 | watts |

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

| | | | |
|--------------------------------------|-----|------|--------|
| For fixed-bias operation | 0.1 | max. | megohm |
| For cathode-bias operation | 0.5 | max. | megohm |

^a The dc component must not exceed 100 volts.

^b Without external shield.

